Abstract

A piezoelectric actuator, e.g., for actuating a mechanical component, is proposed, in which a piezoelectric element (2) for acting on an actuating element (9) with a pulling or pushing force, and a compensating element (3; 20) are provided, wherein the piezoelectric element (2) and the compensating element (3; 20) basically have the same temperature expansion coefficients. The compensating element (3; 20) is mechanically coupled to the piezoelectric element (2) in such a fashion that the temperature-induced expansions of the piezoelectric element (2) and the compensating element (3; 20) cancel each other out in the effective direction in such a fashion that the actuating element (9) remains in its position. A heat transfer compound (12) is located between the piezoelectric element (2; 21) and the compensating element (3; 22).

(Figure 1)